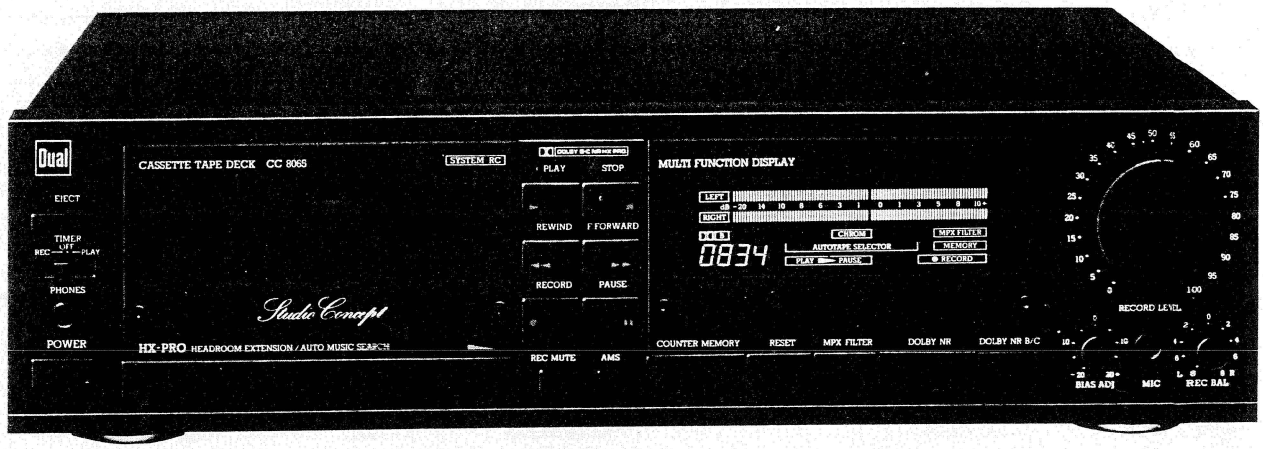
Dual

Service-Anleitung
Service Manual
Instructions de Service

CC 8065



Technische Daten (typische Werte)	**Specifications** (typical values)	**Caractéristiques techniques** (valeurs types)	**Dati tecnici** (valori tipici)	**Dual CC 8065**
Bandgeschwindigkeit	**Tape speed**	**Vitesse de bande**	**Velocità del nastro**	4,75 cm / sec.
Tonhöhenschwankungen W.R.M.S. DIN-Aufnahme/Wiedergabe	**Wow and flutter** W.R.M.S. DIN record/playback	**Variations de tonalité** W.R.M.S. Enregistrement/lecture DIN	**Fluttuazioni nell'altezza del tono** W.R.M.S. secondo DIN registrazione/ riproduzione	± 0,08 % ± 0,10 %
Übertragungsbereich (bezogen auf DIN-Toleranzfeld) Fe-Band CrO_2-Band Reineisenband	**Frequency response** (referred to DIN tolerance) Fe tape CrO_2 tape Metal tape	**Plage de transmission** (par rapport à la zone de tolérance DIN) Bande Fe Bande CrO_2 Bande fer pur	**Banda di frequenza** (relativo al campo di tolleranza DIN) nastro Fe nastro CrO_2 nastro ferro puro	 25–18000 Hz 25–17000 Hz 25–18000 Hz
Ruhegeräusch Spannungsabstand mit Dolby NR Fe-Band CrO_2-Band Reineisenband	**Signal/noise ratio** with Dolby NR Fe tape CrO_2 tape Metal tape	**Rapport signal/bruit pondéré** avec Dolby NR Bande Fe Bande CrO_2 Bande fer pur	**Rapporto segnale/disturbi** con Dolby NR nastro Fe nastro CrO_2 nastro ferro puro	 B C 64 dB 71 dB 66 dB 73 dB 67 dB 74 dB
Übersprechdämpfung (bei 1000 Hz) zwischen zusammengehörigen Kanälen zwischen Kanälen in Gegenrichtung	**Crosstalk attenuation** (at 1000 Hz) between stereo channels in opposite direction	**Diaphonie** (à 1000 Hz) entre canaux homogènes entre canaux opposés	**Diafonia** (a 1000 Hz) con l'altra traccia stereo con la controtraccia	 40 dB 75 dB
Umspulzeit (C 60-Cassetten)	**Rewind time** (C 60 cassettes)	**Durée de bobinage** (Cassettes C 60)	**Tempo di ribobinatura** (per cassette C 60)	100 sec.
Netzspannung Model Europa Model USA/Kanada	**Mains voltage** European model US/Canadian model	**Tension secteur** Modèle Europe Modèle USA/Canada	**Tensione di rete** modello Europa model Stati Uniti/Canada	 230 V 50 Hz 120 V 60 Hz
Maße (Breite × Höhe × Tiefe)	**Dimensions** (width × height × depth)	**Dimensions** (largeur × hauteur × profondeur)	**Dimensions** (larghezza × altezza × profondità)	440 × 92 × 245 mm

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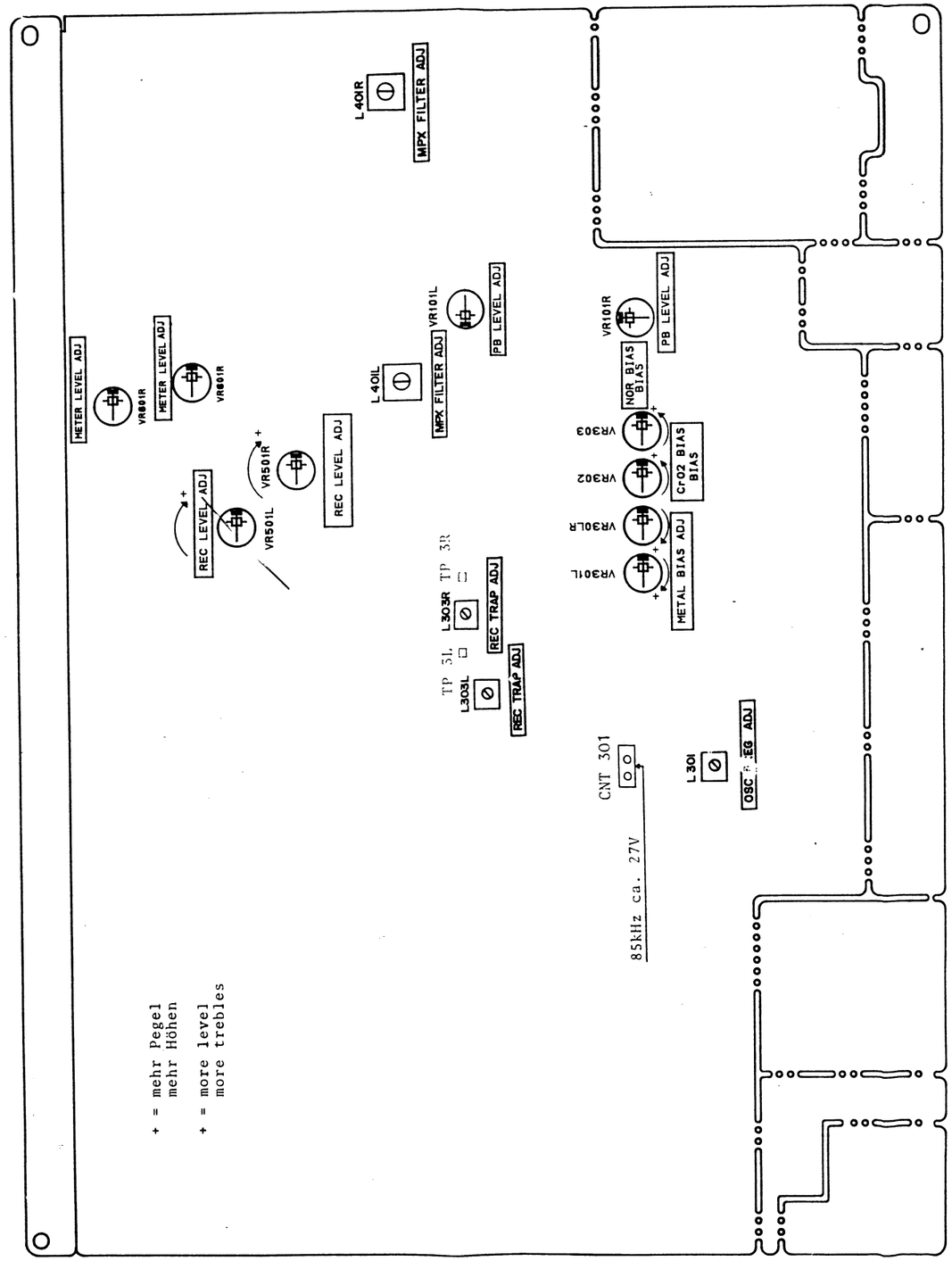
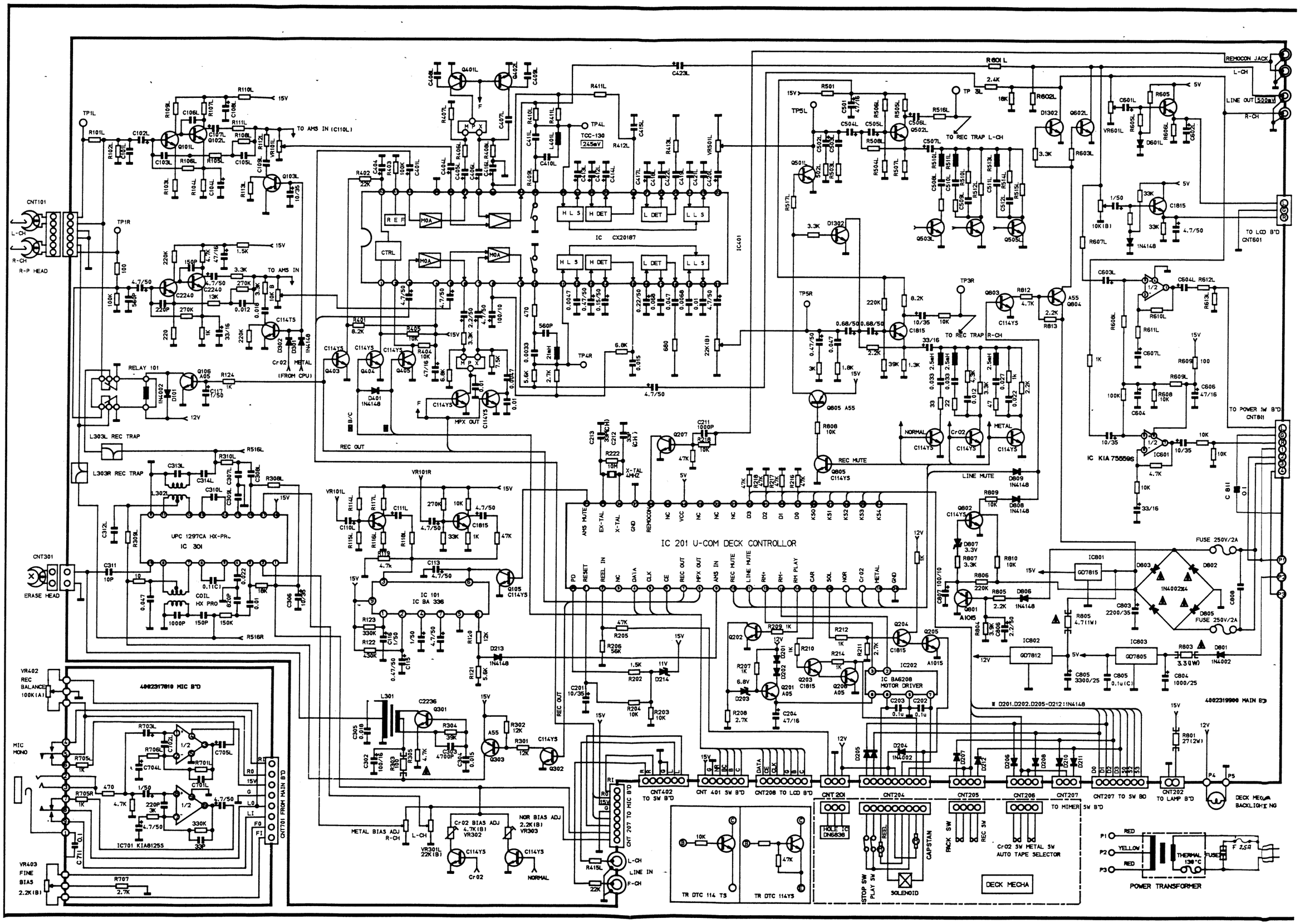
Abgleichanleitung CC 8065

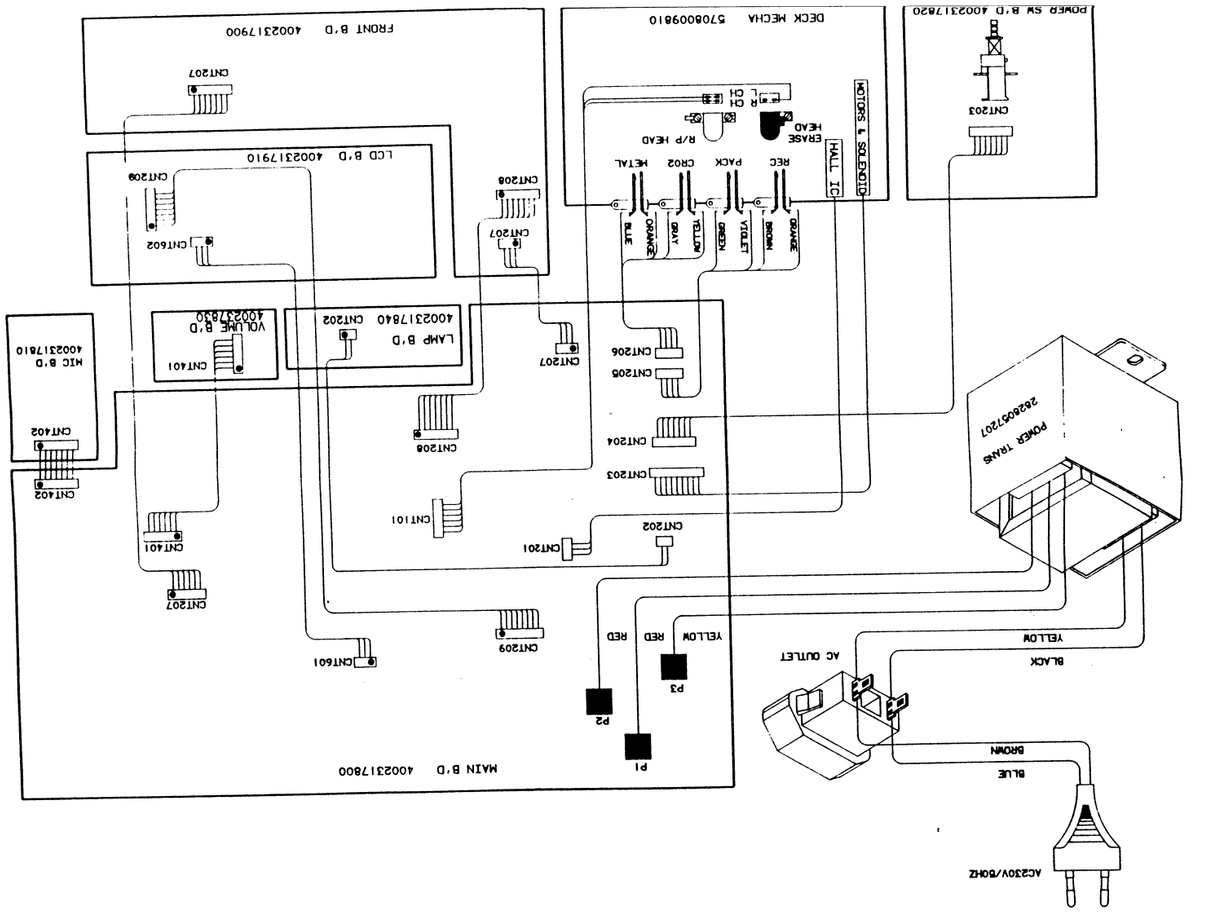
Signalquelle	Einstellung Gerät	Einstellung Signalquelle	Anzeigegerät Anschluß	Abgleichposition	Abgleich, Bemerkung
1) Azimut (Cassettenschacht nach oben abziehen)					
Meßcassette	Dolby: OFF	10 kHz	NF-Voltmeter an OUTPUT	Azimutschraube (links neben dem Kopf)	Maximum mit Loch sichern
2) Bandgeschwindigkeit					
Meßcassette	Dolby: OFF	3150 Hz	Frequenzzähler an OUTPUT	Capstan-Motor Rückseite	3150 Hz
3) Wiedergabepegel und VU Meter					
Meßcassette Dolby Pegel	Dolby: OFF	400 Hz	NF-Voltmeter an OUTPUT	VR 101 L/R	500 mV
				VR 601 L/R	VU Display 0 dB
4) Aufnahmepegel					
NF-Generator an INPUT links/rechts	Dolby: OFF Record: ON Metal Tape	400 Hz ca. 80 mV	NF-Voltmeter an OUTPUT	Record-Levelsteller Maximum	500 mV
				VR 501 L/R	500 mV bei Play
5) HF-Vormagnetisierung					
NF-Generator an INPUT links/rechts	Dolby: OFF Record: ON Metal Tape	12 kHz ca. 80 mV – 20 dB	NF-Voltmeter an OUTPUT	Rec. Levelst. Max.	50 mV
				Grundeinstellung Met. VR 301 L/R	50 mV
	CrO_2 Tape Fe Tape			Cr. VR 302 Fe VR 303	
Nach dem Einstellen von Punkt 5 ist nochmals Punkt 4 zu überprüfen. Bei Abweichungen (über 1 dB) ist der Abgleich 4+5 nochmals zu wiederholen.					
6) HF-Oszillator					
Metal Cassette	Record: ON		Frequenzzähler an CNT 301	L 301	85 kHz
7) HF-Sperrkreis					
Metal Cassette	Record: ON		NF-Voltmeter an TP 3 L/R	L 303 L/R	Minimum
8) 19 kHz Pilot-Signal-Filter					
NF-Generator an INPUT links/recht	Dolby: OFF Record: ON MPX: ON Metal Tape	19 kHz ca. 80 mV	NF-Voltmeter an OUTPUT	Rec. Levelst. Max.	
				L 401 L/R	Minimum
9) HX-Pro-Spule					
	Record: ON		NF-Voltmeter an Pin 6 + 13 IC 301	L 301 L/R	Minimum

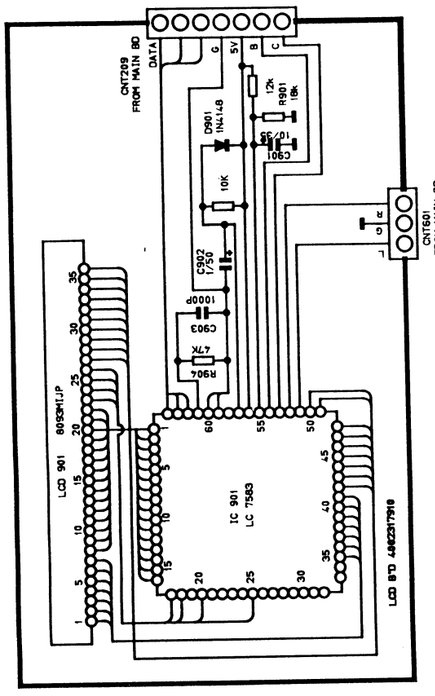
Tuning Instructions CC 8065

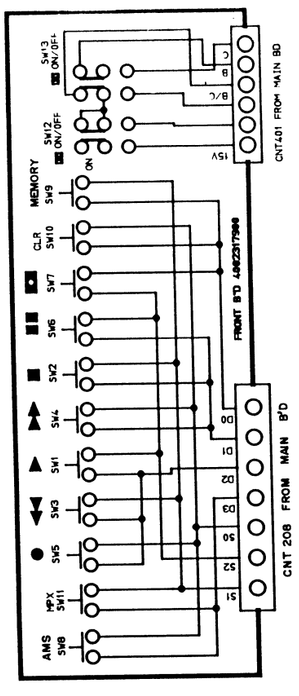
Signal source	Equipment setting	Signal source setting	Connection of measuring instrument	Item to be tuned	Tuning, Remarks
1) Azimuth (lift off cover cassette slot)					
Test cassette	Dolby: OFF	10 kHz	AF voltmeter to OUTPUT	Azimuth screw to left of the head	Use lacquer to fix at maximum
2) Tape speed					
Test cassette	Dolby: OFF	3150 Hz	Frequency counter to OUTPUT	Capstan motor rear	3150 Hz
3) Playback level and VU Meter					
Test cassette Dolby Pegel	Dolby: OFF	400 Hz	AF voltmeter to OUTPUT	VR 101 L/R	500 mV
				VR 601 L/R	VU Display 0 dB
4) Record level					
AF generator to INPUT left/right	Dolby: OFF Record: ON Metal Tape	400 Hz approx. 80 mV	AF voltmeter to OUTPUT	Record level control maximum	500 mV
				VR 501 L/R	500 mV (during play)
5) RF premagnetization					
AF generator to INPUT left/right	Dolby: OFF Record: ON Metal Tape	12 kHz approx. 80 mV – 20 dB	AF voltmeter to OUTPUT	Record level control max.	50 mV
	CrO_2 Tape Fe Tape			basic setting Met. VR 301 L/R	50 mV
				Cr. VR 302 Fe VR 303	
Check the recording level again after setting the premagnetization. If it deviates (by more than 1 dB), repeat tuning, record level and RF premagnetization.					
6) RF oscillator					
Metal cassette	Record: ON		Frequency counter to CNT 301	L 301	85 kHz
7) RF trap					
Metal cassette	Record: ON		AF voltmeter to TP 3 L/R	L 303 L/R	Minimum
8) 19 kHz pilot-signal filter					
AF generator to INPUT left/right	Dolby: OFF Record: ON MPX: ON Metal Tape	19 kHz approx. 80 mV	AF voltmeter to OUTPUT	Record level control max.	
				L 401 L/R	Minimum
9) HX-Pro-coil					
	Record: ON		AF voltmeter to Pin 6 + 13 IC 301	L 301 L/R	Minimum

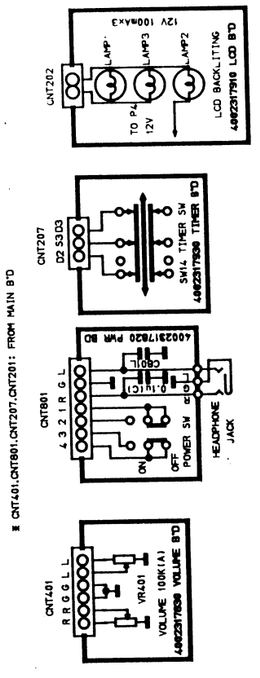



IC CX20187
IC 201 U-COM DECK CONTROLLOR
IC 101
IC BA 336
UPC 1297CA HX-PRO
IC 301
IC701 K1A81255
IC KIA7559S
IC BA6208
MOTOR DRIVER
GD7815
GD7812
GD7805
1N4002X4
CNT301
ERASE HEAD
CNT101
R-P HEAD
L-CH
R-CH
RELAY 101
L303L REC TRAP
L303R REC TRAP
TO AMS IN (C110L)
TO AMS IN
(FROM CPU)
TP4L
TCC-130
245mV
TP4R
TP1L
TP1R
TP5L
TP5R
TP3L
TP3R
TO REC TRAP L-CH
TO REC TRAP R-CH
REMOCON JACK
LINE OUT 500mV
TO LCD B'D
CNT601
TO POWER SW B'D
CNT801
TO SW B'D
CNT202
TO LAMP B'D
CNT207 TO SW BD
TO MIMER SW B'D
CNT402
TO SW B'D
CNT 401 SW B'D
CNT208 TO LCD B'D
CNT 207 TO MIC B'D
CNT701 FROM MAIN B'D
40022317010 MIC B'D
40022319900 MAIN B'D
MIC MONO
VR402
REC BALANCE 100K(A)
VR403
FINE BIAS 2.2K(B)
MPX OUT
REC OUT
METAL BIAS ADJ
L-CH
R-CH
VR301L 22K(B)
Cr02 BIAS ADJ
4.7K(B)
VR302
NOR BIAS ADJ
2.2K(B)
VR303
Cr02
NORMAL
METAL
LINE IN
LINE MUTE
REC MUTE
X-TAL 4MHZ
HOLE IC DN6838
TR DTC 114 TS
TR DTC 114YS
CAPSTAN
REEL
STOP SW
PLAY SW
PACK SW
REC SW
SOLENOID
Cr02 SW METAL SW
AUTO TAPE SELECTOR
DECK MECHA
DECK MECHANISM
BACKLIGHTING
POWER TRANSFORMER
THERMAL FUSE
130°C
F 2.5A
FUSE 250V/2A
RED
YELLOW
P1
P2
P3
P4
P5
* D201.D202.D205-D212:1N4148

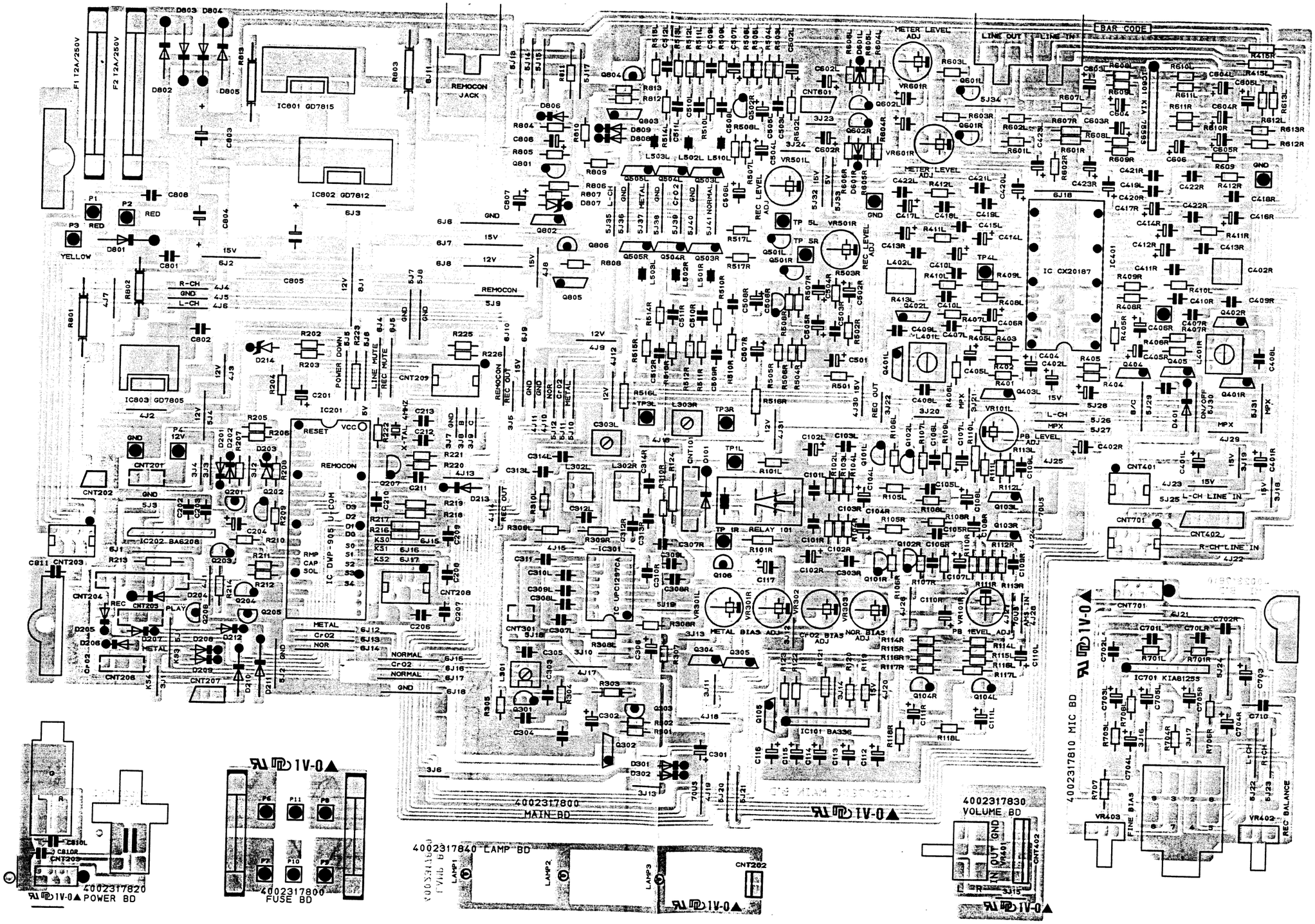








※ CNT401,CNT801,CNT207,CNT201 : FROM MAIN B'D

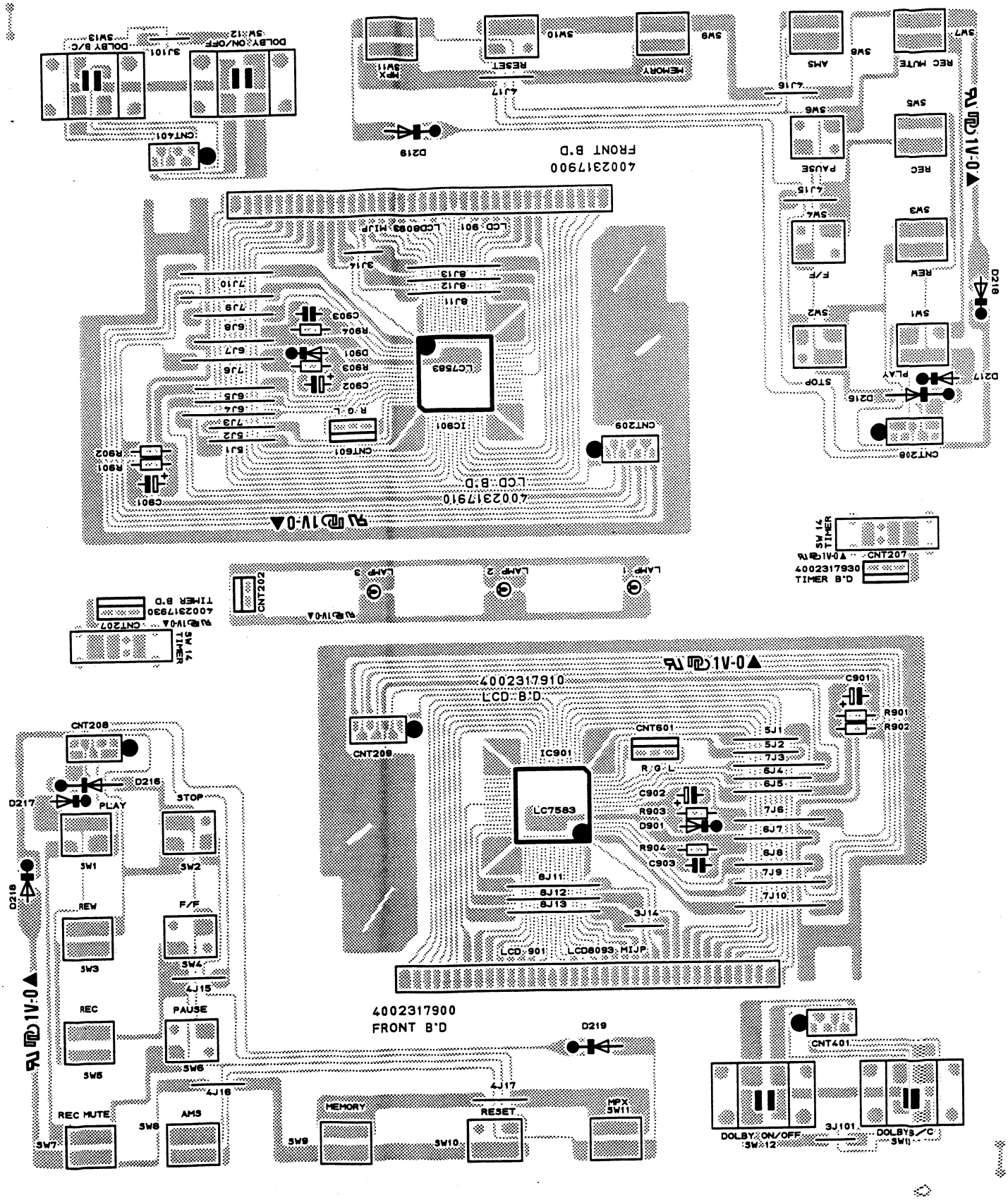

4002317800
MAIN BD
4002317810 MIC BD
4002317820
POWER BD
4002317830
VOLUME BD
4002317840 LAMP BD
4002317800
FUSE BD
IC CX20187
IC101 BA336
IC701 KIA81255
IC601 GD7815
IC802 GD7812
IC803 GD7805
IC202 BA6208
IC DMP-905
IC UPC1297CA
REMOCON JACK
BAR CODE
LINE OUT
LINE IN
METER LEVEL ADJ
REC LEVEL ADJ
PB LEVEL ADJ
METAL BIAS ADJ
CrO2 BIAS ADJ
NOR BIAS ADJ
FINE BIAS
REC BALANCE
RELAY 101
REMOCON
REC
PLAY
RESET
VCC
RMP
CAP
SOL
POWER DOWN
LINE MUTE
REC MUTE
REC OUT
L-CH LINE IN
R-CH LINE IN
MPX
ON/OFF
R-CH
GND
L-CH
METAL
CrO2
NOR
NORMAL
F1 T2A/250V
F2 T2A/250V
YELLOW
RED
1V-0

Ersatzteile · Replacement parts · Pièces détachées · CC 8065

Pos.	Art.-Nr.	Bezeichnung
1	283665	Powertaste
2	283750	Dual-Zeichen
3	284670	Taste Eject
4	284874	Feder
6	286929	Schiebeknopf
7	286930	Schalter
8	283705	Kopfhörerbuchse
9	283701	Schalter Power
11	284875	Abdeckung
12	284876	Fenster
13	283713	Lampe
14	284877	Spiegel
16	283680	Gehäuseblech
17	284337	Mechanik
18	286931	Fenster (Cassette)
19	284680	Cassettenblende
20	284336	Fenster (Anzeige)
21	286932	Drehknopf
22	286933	Abdeckung (Tasten)
23	284678	Taste Dolby B/C
24	284677	Taste Dolby NR
25	286934	Taste RECORD/PAUSE
26	286935	Taste REWIND/FORWARD
27	286936	Taste PLAY/STOP
28	284673	Taste REC/MUTE/AMS
29	284671	Taste 3-fach
30	280197	Schalter
31	283719	Schalter
32	286937	Drehknopf
33	286938	Frontblende
34	286939	Steller
35	286940	Steller 2 KΩ
36	283704	Mic-Buchse
37	284339	Display
40	286941	Steller
42	283710	Gerätefuß
46	282344	Lampe
48	283715	Cinchbuchse 4-fach
49	286897	Remotebuchse
55	283711	Netztrafo
56	286898	Anschlußbuchse
57	237548	Kabeldurchführung
59	232996	Netzkabel
		Mechanik
70	284858	Cassettenschacht
72	280860	Mitnehmer
73	282421	Dämpfer
74	282422	Kupplung
75	263029	IC DN 6838
76	282424	Schwungscheibe
77	282425	A/W-Kopf
78	282426	Löschkopf
79	283761	Andruckrolle
80	280394	Motor Capstan
81	280399	Motor
82	282428	Zugmagnet
92	282436	Schalter
93	282437	Schalter
94	282438	Lagerbuchse
95	280406	Riemen
96	282439	Antriebsrolle Capstan
97	282440	Kurvenrad
98	282441	Antriebsrad
		Elektronik
X-TAL	281411	Quarz 4 MHz

Pos.	Art.-Nr.	Bezeichnung
L 301	286942	Spule Osc
L 302	286943	Spule HX
L 303	282366	Spule REC
L 401	282365	Spule MPX
L 402	282367	Spule 21 MH
L 501/502	282217	Spule 3,5 MH
L 503	282502	Spule 2,0 MH
D 101	226501	Diode 1 N 4002
D 201/202	223906	Diode 1 N 4148
D 203	283714	Diode DZ 6,8
D 204	226501	Diode 1 N 4002
D 205	223906	Diode 1 N 4148
bis		
D 213	223906	Diode 1 N 4148
D 214	263133	Diode HZ 11
D 216	223906	Diode 1 N 4148
bis		
D 219	223906	Diode 1 N 4148
D 601	223906	Diode 1 N 4148
D 801	226501	Diode 1 N 4002
bis		
D 805	226501	Diode 1 N 4002
D 806	223906	Diode 1 N 4148
D 807	282078	Diode DZ 3,3
D 808/809	223906	Diode 1 N 4148
IC 101	282363	IC BA 336
IC 201	286973	IC DWP 905 CPU
IC 202	282362	IC BA 6208
IC 301	284644	IC UPC 1297
IC 601	283669	IC KIA 75559 S
IC 701	283716	IC KIA 8125 S
IC 801	283679	IC GD 7815
IC 802	284588	IC NJM 7812
IC 803	283727	IC GD 7805
IC 901	283717	IC LC 7583
Q 101	282052	Transistor KTC 2240 BL
Q 102	282052	Transistor KTC 2240 BL
Q 103	283699	Transistor DTC 114 YS
Q 104	273293	Transistor 2 SC 1815 BL
Q 105	283699	Transistor DTC 114 YS
Q 106	282059	Transistor MPS A 05
Q 201	282059	Transistor MPS A 05
Q 202	282076	Transistor KTC 1815 Y
bis		
Q 204	282076	Transistor KTC 1815 Y
Q 205/206	282059	Transistor MPS A 05
Q 207	282076	Transistor KTC 1815 Y
Q 301	283437	Transistor KTC 2236 A
Q 302	283699	Transistor DTC 114 YS
Q 303	282060	Transistor MPS A 55
Q 304	283699	Transistor DTC 114 YS
bis		
Q 405	283699	Transistor DTC 114 YS
Q 501	274774	Transistor 2 SD 1302 T
Q 502	282076	Transistor KTC 1815 Y
Q 503	283700	Transistor DTC 114 TS
bis		
Q 505	283700	Transistor DTC 114 TS
Q 601	282076	Transistor KTC 1815 Y
Q 602	269146	Transistor 2 SC 1740 S
Q 801	282077	Transistor KTA 1015 Y
Q 802/803	283699	Transistor DTC 114 YS
Q 804	282060	Transistor MPS A 55
Q 805	283699	Transistor DTC 114 YS
RY 101	286944	Relais
D 901	223906	Diode 1 N 4148

Änderungen vorbehalten! Subject to change! Sous réserve de modification!


4002317910
LCD B'D
4002317900
FRONT B'D
4002317930
TIMER B'D
LC7583
LCD 901
LCD6093 MIJP
IC901
CNT601
CNT209
CNT208
CNT207
CNT202
CNT401
SW1
SW2
SW3
SW4
SW5
SW6
SW7
SW8
SW9
SW10
SW11
SW12
SW13
SW14
D216
D217
D218
D219
PLAY
STOP
REW
F/F
REC
PAUSE
REC MUTE
AMS
MEMORY
RESET
MPX
DOLBY ON/OFF
DOLBY B/C
LAMP 1
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LAMP 3
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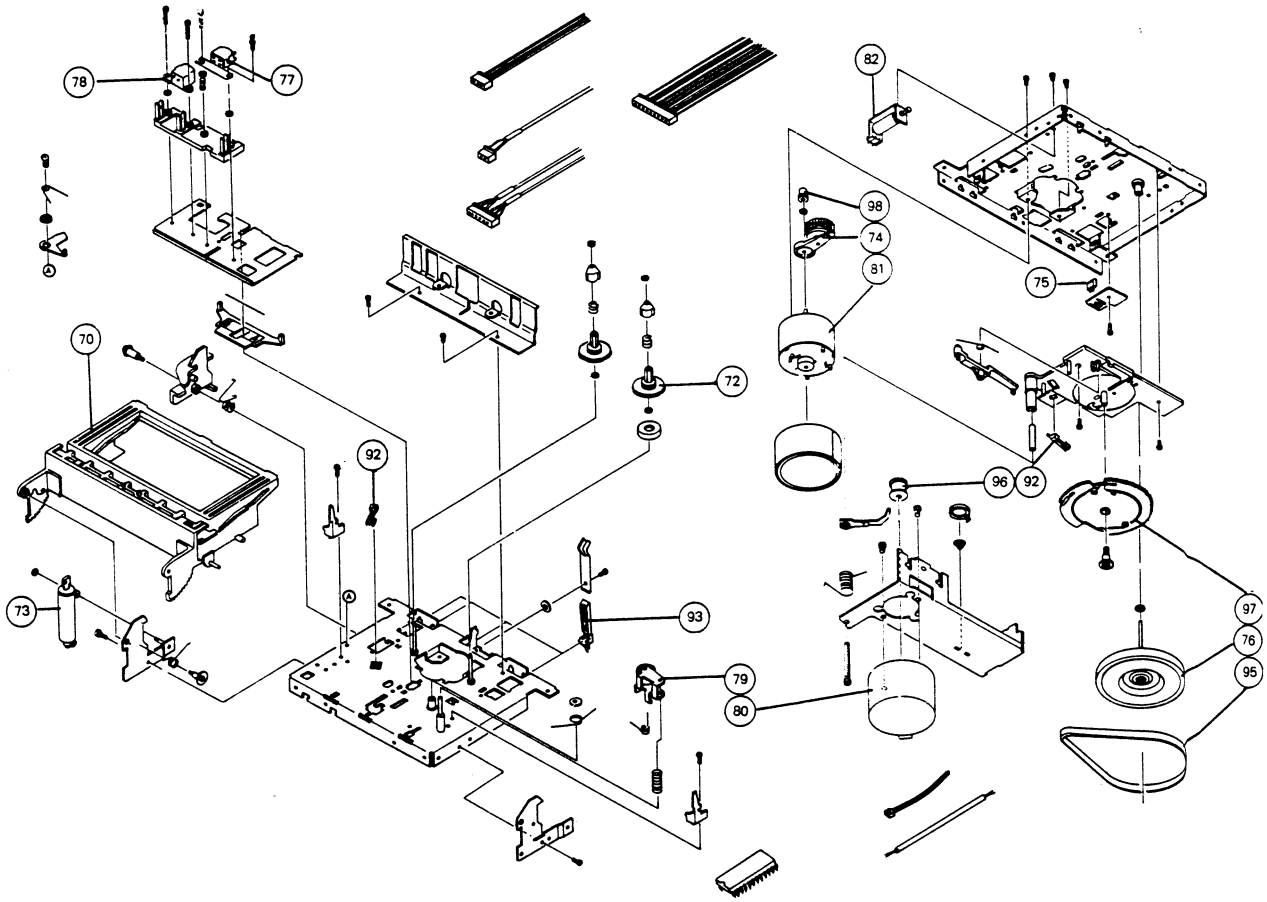
R G L
C901
C902
C903
R901
R902
R903
R904
D901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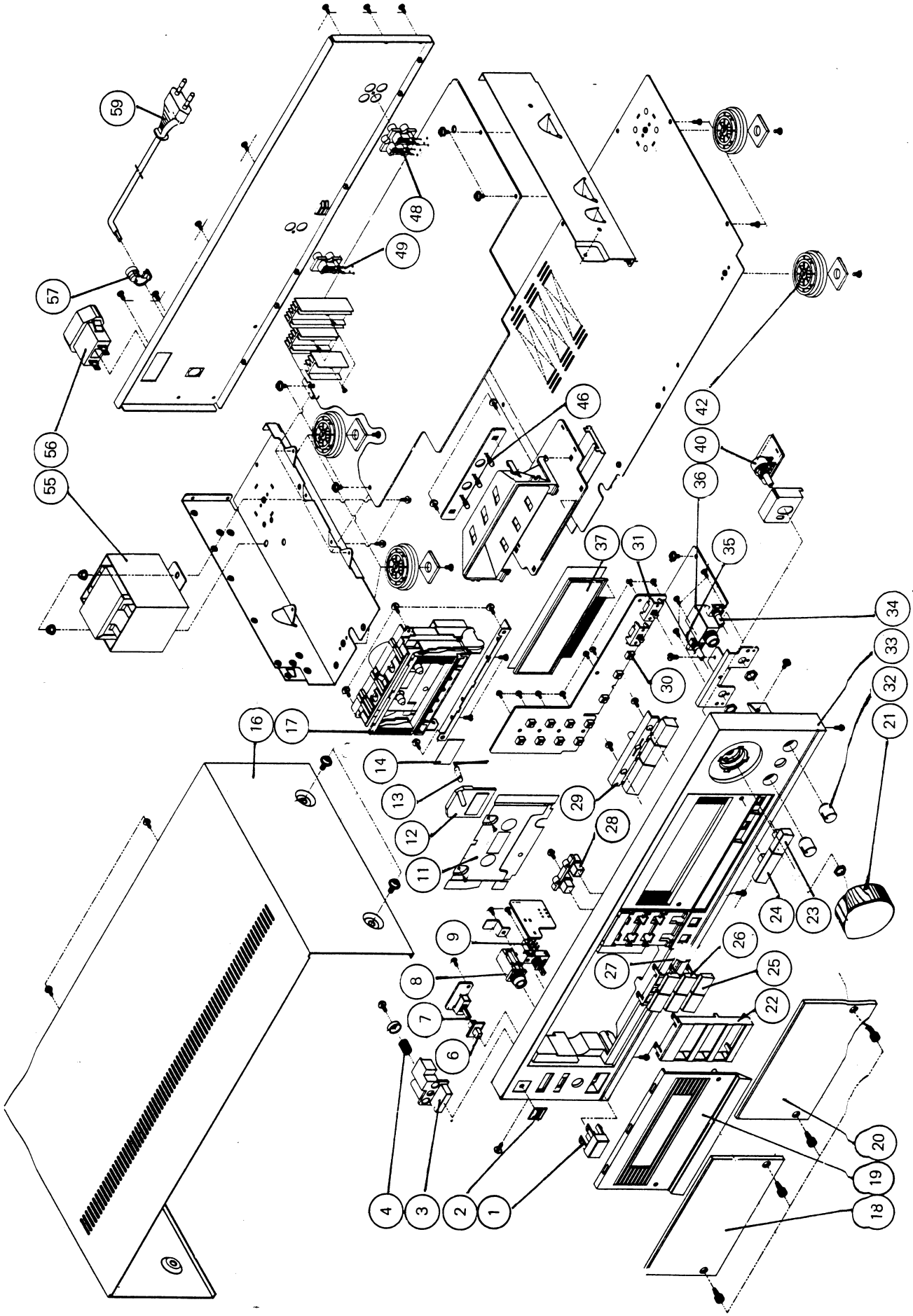
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